

CLAIMS

1. A DNA encoding a protein having the amino acid sequence shown in SEQ ID NO: 1 or a variant protein thereof in which one or more amino acid residues are substituted, deleted or added, said protein and variant protein thereof being capable of yielding, through its intracellular decomposition, peptide fragment(s) which can bind to major histocompatibility complex (MHC) class I antigen and which can be recognized by T cells in such binding state.
2. A DNA which comprises the base sequence shown in SEQ ID NO: 2, or a variant DNA which hybridizes to said DNA under stringent conditions, the protein produced by expression of said DNA and variant DNA being capable of yielding, through its intracellular decomposition, peptide fragment(s) which can bind to MHC class I antigen and which can be recognized by T cells in such binding state.
3. A medicine comprising DNA of claim 1 or 2 as an active ingredient.
4. An expression plasmid comprising DNA of claim 1 or 2.
5. A transformant transformed with the expression plasmid of claim 4.
6. A tumor antigen protein produced by expression of DNA of claim 1 or 2.
7. A tumor antigen peptide comprising part of the protein of claim 6, which can bind to MHC class I antigen to be recognized by T cells, or a derivative thereof having functionally equivalent properties.
8. A tumor antigen peptide of claim 7 which comprises all or

part of the amino acid sequence of positions 749-757, 736-744, 785-793,
or 690-698 in the amino acid sequence of SEQ ID NO: 1, or a derivative
thereof having functionally equivalent properties.

9. A medicine comprising, as an active ingredient, the tumor
antigen protein of claim 6, the tumor antigen peptide or derivative
thereof defined in claim 7 or 8.

10. An antibody which specifically binds to the tumor
antigen protein of claim 6 or the tumor antigen peptide of claim 7 or 8.

11. A DNA comprising 8 or more bases having a sequence
complementary to a coding or 5' non-coding sequence of DNA having the
base sequence shown in SEQ ID NO: 2, an RNA corresponding to said
DNA, or a chemically modified variant thereof.